GUEST GATE™
INTERNET ACCESS DEVICE
USER MANUAL
MODEL 523240

INTELLINET
NETWORK SOLUTIONS
BRINGING NETWORKS TO LIFE

V1.0/11-05

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1. INTRODUCTION

Congratulations on your purchase of the INTELLINET NETWORK SOLUTIONS™ GUEST GATE™ Internet Access Device. The GUEST GATE connects guests to your network, allowing them to access only the Internet (Web, Email, Chat and other applications). GUEST GATE protects your existing network from unauthorized access by the connected guest computers and, if required, even shields the guest computers among themselves. Furthermore GUEST GATE features enhanced IP PnP (Plug and Play) technology: It automatically adjusts to the guest computer's TCP/IP settings eliminating time consuming client IP reconfigurations.

GUEST GATE seamlessly integrates into your existing network and in most applications a configuration of GUEST GATE is not necessary. GUEST GATE provides the core functionality right out of the box.

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1.1 FUNCTION DESCRIPTION

Internet Access for Guests

GUEST GATE is primarily designed to provide configuration free Internet Access for your guests. GUEST GATE uses the existing Internet Connection of your network to provide web and email access for computers connected in a conference room, a hotel or a public place with wireless network connectivity. But GUEST GATE does not stop here. It addresses security related concerns of the Network Administrator by shielding the existing network from access attempts by connected guests. In short this means that guests can access the Internet; but, your own network, i.e. your Network File Server, Email or Application Server, is off limits.

Password Protected Internet Access for Guests

You the Network Administrator can make it mandatory for your guests to enter a password before Internet Access is granted. This is an important function in case you offer Internet Access as a paid service or in situations where an open, unprotected Wireless Access Point is connected to GUEST GATE and you wish to keep unauthorized users from using your bandwidth.

Configurable Welcome Screen for your Guests

You can setup your own Welcome Screen in seconds. Change the wording, and format and even upload your own banner image. The Welcome Screen is displayed when a guest connects to

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the Internet for the first time. The Welcome Screen can be utilized to make the guest agree to your terms and conditions. The Welcome Screen can be completely deactivated if required.

IP PnP

In many situations it is necessary for the Network Administrator to change the TCP/IP Settings of Guest Computers because the existing settings are not compatible or your network has advanced requirements. GUEST GATE eliminates this step completely. GUEST GATE automatically adjusts to the Guest Computer's TCP/IP settings providing a true zero guest configuration.

Bandwidth Control

GUEST GATE controls how much of your Internet Connection Speed is dedicated to the Guest Network. Upload and Download bandwidth can be configured individually.

True Layer 3 Virtual VLAN Function

In a public location with a public Wireless Access Point there are often concerns about security. GUEST GATE not only protects the Host Network from unauthorized access by your guests, it takes security one step further. When the "use separate random network for each client" option is activated, no guest computer can access any other guest computer. In this mode GUEST GATE randomly assigns each guest computer its own network. This option is activated by default.

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Packet Filter
Block access to certain web sites or entire IP ranges.

4 Port 10/100 Auto Sensing LAN Switch
GUEST GATE provides 4 10/100 Mbps LAN Switch ports for the connection of PCs, Notebook, other Switches or Wireless Access Points.

Web Based Administrator Interface
The configuration is fully web browser based. For security reasons the Web Administrator Menu is only accessible from the Host Network.

Firmware Updates via Web Browser
Quickly and conveniently upgrade firmware of GUEST GATE with the web browser of your choice.

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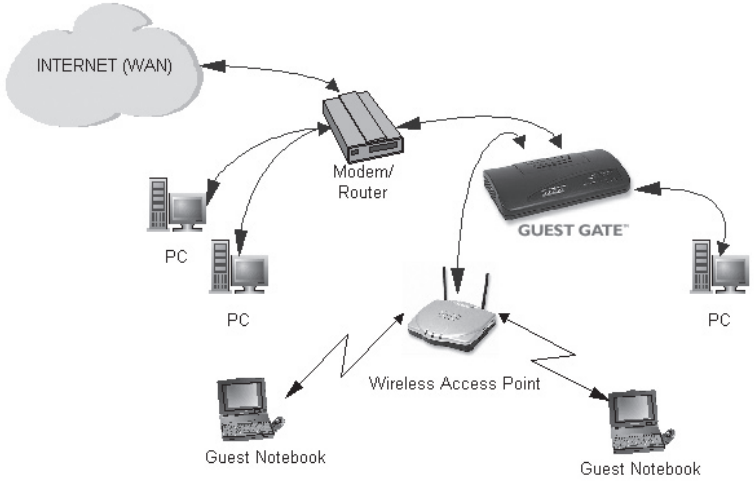
1.2 INSTALLATION EXAMPLES

GUEST GATE in a SOHO Network Environment

A typical setup in which the Internet Connection is establish through a NAT Router with an integrated Firewall.



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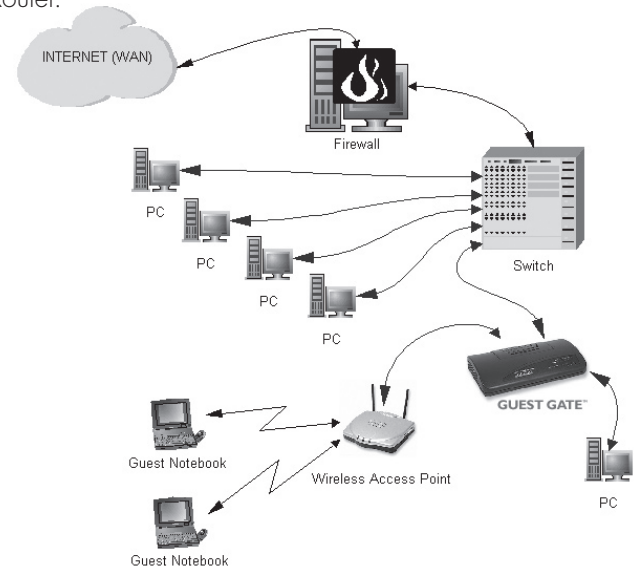
GUEST GATE in a SMB Environment

In larger networks GUEST GATE connects to any available Switch port behind the Firewall/ Gateway/Router.



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1.3 GUEST GATE FUNCTION BASICS

Ports

GUEST GATE features a total of 5 10/100 RJ45 Ports. One port is for the connection of GUEST GATE to the Host Network (Host Port), 4 Ports are available for guest connections (Guest Ports). The Guest Ports can be connected to Hubs, Switches, Wireless Access Points, PCs or Notebooks.

Host Port

By default GUEST GATE obtains an IP Address from a DHCP Server already present in the network. GUEST GATE analyzes the network and obtains all information necessary for Internet Access. The DHCP Server Log reveals the HOST IP Address of GUEST GATE.

In the event that no DHCP Server is present GUEST GATE reverts to its default IP Address 192.168.2.1. In this case a manual configuration of the HOST IP settings is necessary.

Guest Ports

GUEST GATE assigns IP Addresses to the connected Guest Computers. IP PnP technology ensures that no configuration on the Guest Computer is necessary. The default DHCP IP Address range is 172.16.xxx. Changing the GUEST IP Settings is possible via the Web Administration Interface.

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Guest Ports with Virtual VLAN Enabled

If "Virtual VLAN" is enabled, GUEST GATE assigns a different IP Network (Subnet) to each connected Guest Computer. Since this assignment is random it makes it virtually impossible for a hacker to guess the other Guest Computer's IP Settings to try to gain access. "Virtual VLAN" is enabled by default. It can be disabled in the GUEST configuration screen of the Administrator Web Interface. The option is called: "use separate random network for each client".

Accessing the Administrator Web Interface

The configuration of GUEST GATE is entirely web based. Any standard web browser is supported. For security reasons GUEST GATE can only be configured from the HOST Port. GUEST GATE rejects all connection attempts which originated from the GUEST side.

Internet Access for Guests and Welcome Page

When a guest computer tries to access the Internet for the first time, a Welcome Page is being shown in the web browser. This welcome page can be configured and altered in the Administrator Web Interface. Guests have to accept the terms and conditions in order to access the Internet. If the Guest Password option is enabled, a password must be provided by the guest to gain Internet access. This authorization procedure is only required once. GUEST GATE memorizes all authorized Guest Computers until GUEST GATE is restarted. After a restart of GUEST GATE guests again will be shown the Welcome Page.

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2. INSTALLATION OF GUEST GATE

2.1 RECOMMENDED SETUP

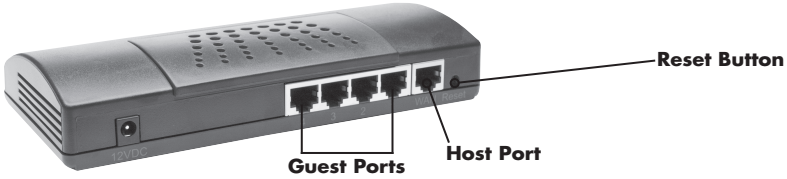
This setup method assumes that a DHCP Server such as a router is present in your network.

1. Connection to the Host Network

Connect standard RJ45 Network Cable to GUEST GATE's HOST Port and to a RJ45 port on your existing network (Ethernet Switch Port, Router Switch Port, etc.). Turn on GUEST GATE and verify that the network connection is active (HOST LED must be lit on GUEST GATE).
Please Note: The startup process takes up to 30 seconds.

2. Connection of Guests

Using standard RJ45 Network Cable you can now connect PCs, Notebooks, Ethernet Switches, Hubs or Wireless Access Points to the Guest Ports of GUEST GATE. Each Port has its own Status LED. Please verify that the network connection is active on each port you connect.



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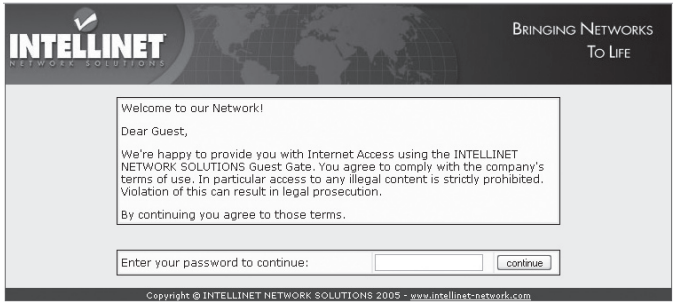
3. Testing Internet Access

Start a PC or Notebook which is connected to one of the Guest Ports. Launch a web browser and open an Internet Web Site such as http://www.intellinet-network.com. You will then see GUEST GATE's Welcome Page.


INTELLINET
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Welcome to our Network!
Dear Guest,
We're happy to provide you with Internet Access using the INTELLINET NETWORK SOLUTIONS Guest Gate. You agree to comply with the company's terms of use. In particular access to any illegal content is strictly prohibited. Violation of this can result in legal prosecution.
By continuing you agree to those terms.
Enter your password to continue:
continue
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Provide the password if required and click on CONTINUE. You will then be forwarded to the Web Page you originally entered in the web browser's address bar.

Please note: In order to get Internet Access you must first open a web browser and open a web page. Other applications such as Chat Programs (ICQ, MSN Messenger, Skype, etc) will not be able to connect to the Internet unless the Welcome Page has been confirmed in the web browser.

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4. Accessing the Administrator Web Interface from the Host Network

1. Open the log of your DHCP Server to find out the IP Address of GUEST GATE. GUEST GATE's MAC (Media Access Control) Address can be found on the bottom of the device. Find this MAC Address in your DHCP Server's Client to find out the IP Address. Below is an example of a DHCP Log File:

IP Address	MAC Address	Time Expired(s)
192.168.0.100	00:50:fc:be:48:58	169576
192.168.0.101	00:0f:a3:1d:a3:da	114749

2. Launch your web browser and open the IP Address shown in the DHCP Client Log. You will then see the Administrator Web Interface. The default password is **1234**.

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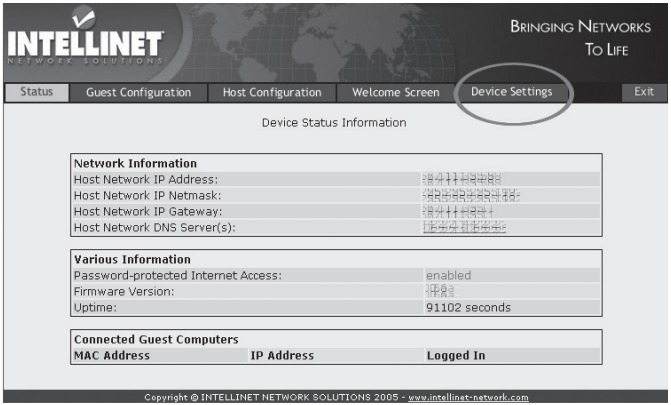
3. Changing Administrator Password



Click on **Device Settings**

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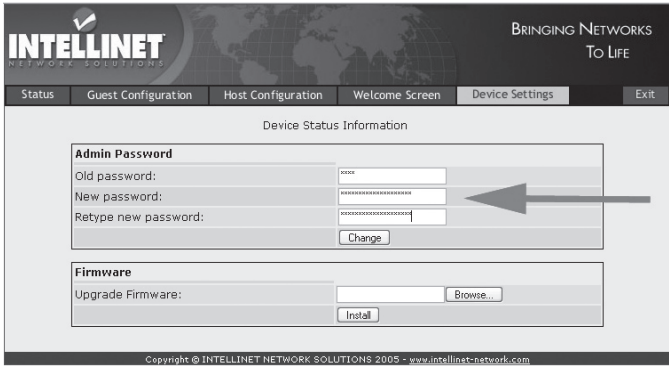

Enter the old password **1234**.
Enter a new password (up to 20 characters long).
Retype the new password.
Click on EXIT (upper right corner).

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Check **Save Settings**
Check **Reboot Device**
Click on **Exit**

GUEST GATE now reboots. This takes about 25 seconds. After the reboot you will be redirected to GUEST GATE's Login Page. You can now login with the new password.

Information about the Administrator Web Interface:
The interface is designed to let you make changes on all 4 screens without saving each change individually. Once you are done programming GUEST GATE you need to click on EXIT and REBOOT the device.The changes will only take effect after GUEST GATE has been rebooted. Closing the web browser without saving the configuration changes will result in a loss of the changed configuration.

If you have successfully performed the above steps you can skip the next Chapter "Advanced Setup".

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2.2 ADVANCED SETUP

The standard installation of GUEST GATE bases on the assumption that a DHCP Server is present in your network. If this is not the case, you can still configure GUEST GATE manually. To do that you need to turn on GUEST GATE while it is disconnected from the network. If no DHCP Server can be found after 3 minutes, GUEST GATE will fall back to its default IP Address of 192.168.2.1.

This ADVANCED SETUP requires as follows:

- Network Adapter correctly installed in your computer
- User rights allow for manual configuration of TCP/IP related settings on your PC
- GUEST GATE is connected via RJ45 cable to the Network Adapter in your PC

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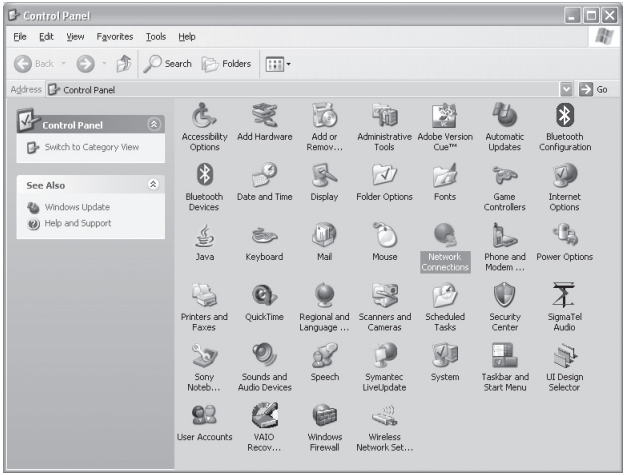
1. Changing the IP Address of your PC

Click on START -> SETTINGS -> CONTROL PANEL.



Double-Click the **Network Connections** icon

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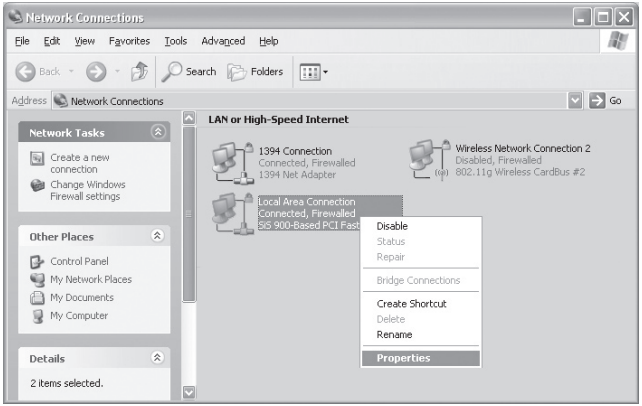

Right-Click the **Local Area Connection** icon and select **Properties** from the context menu.

In the Local Area Connection Properties window highlight "**Internet Protocol (TCP/IP)**" and click on **Properties**.

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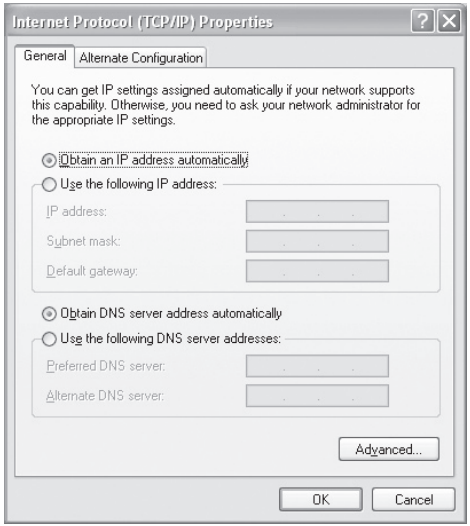
The window **Internet Protocol (TCP/IP) Properties** then opens – see below:


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

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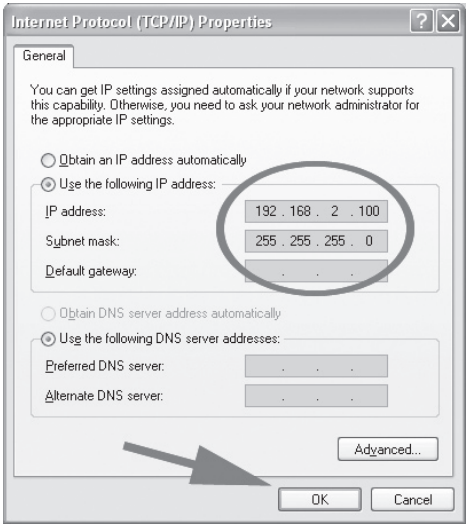
Make the changes as shown below:


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 2 . 100
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Click **OK** when done.
Close the previous windows by clicking **OK** as well.
Your TCP/IP Settings are now compatible to GUEST GATE.

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2. Connecting to GUEST GATE via Web Browser

Start your web browser and to to the address http://192.168.2.1.
The Administrator Web Interface Login Screen then appears.

Enter the password **1234** and click on **Login**

Please note: At this point we recommend changing the Administrator Password as described in the previous chapter.

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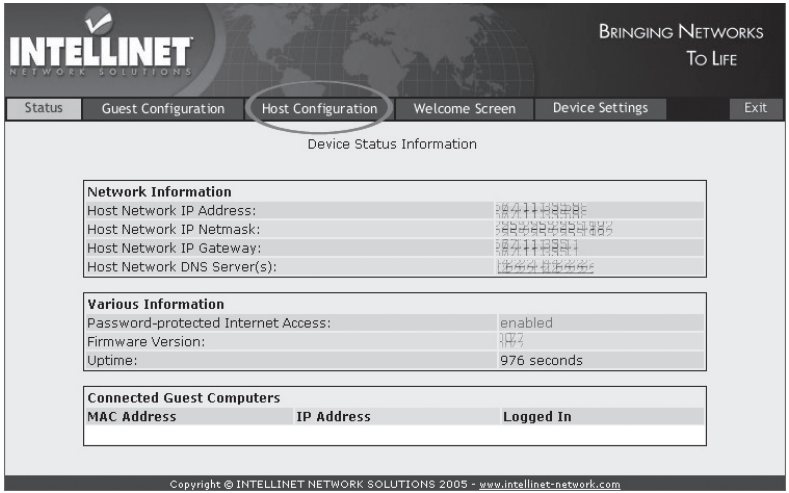
3. Host Configuration



Click on **Host Configuration**

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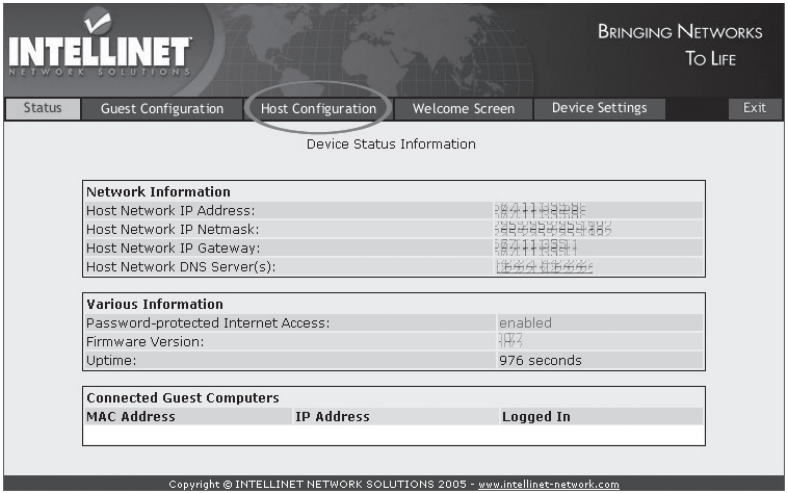

Configuration Host:

Specify the Device IP Address, IP Netmask, IP Gateway (Internet Connection Gateway, Router) and DNS Server. You can add multiple DNS Servers by separating the different entries by a space.

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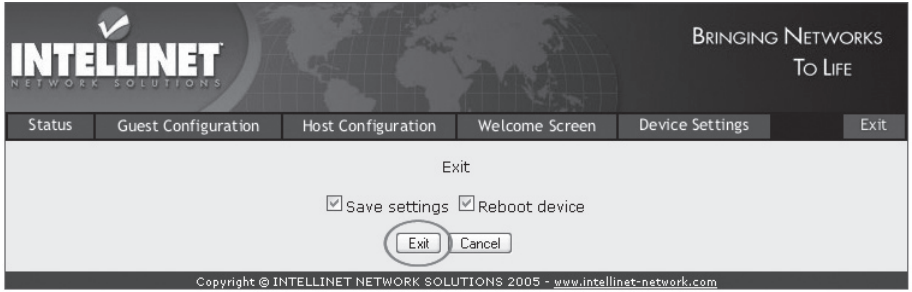
Packetfilter:
See Chapter "Configuration Options of Guest Access Appliance (GUEST GATE)".

When you are done click on **Exit** (upper right corner).



Click on **Exit** to save the configuration and restart GUEST GATE.

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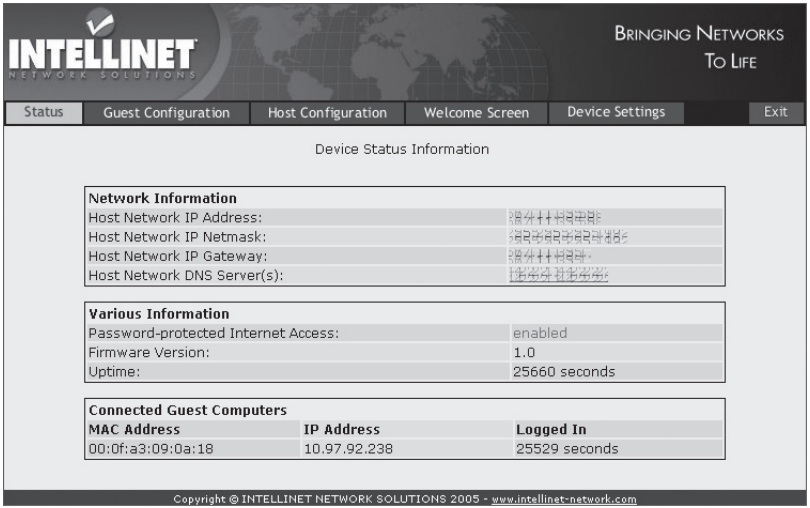
3. CONFIGURATION OPTIONS OF GUEST GATE

3.1 STATUS SCREEN



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The Status Screen shows three types of information:

1. Network Information
Basic Information about the HOST Network Interface.

2. Various Information
Display of the current firmware version, the system's uptime and the status of the password protected Internet Access.

3. Connected Guest Computers
GUEST GATE shows all connected Guest Computers, including the MAC Address, the assigned IP Address and the connection time.

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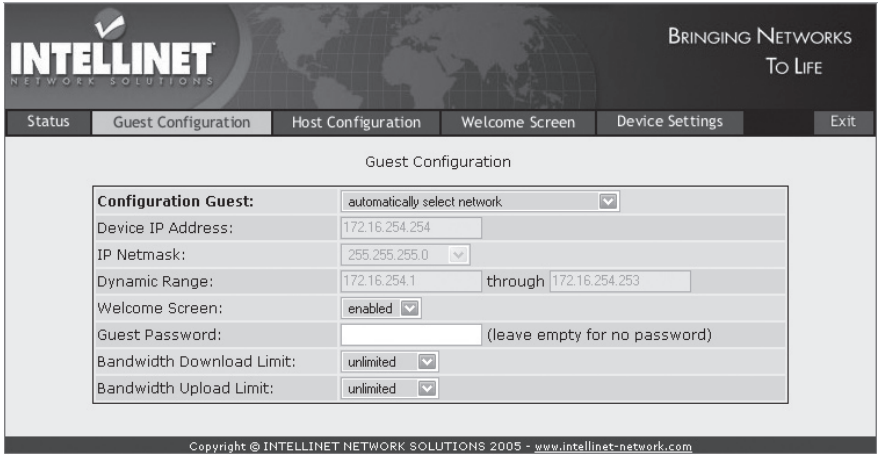
3.2 GUEST CONFIGURATION SCREEN



This page shows the configuration options for the connected Guest Computers.

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1. Configuration Guest

Option "automatically select network"

GUEST GATE automatically assigns IP Addresses to the Guest Computers. All Guest Computers operate in the same network (Virtual VLAN = off).

Option "use separate random network for each client"

This operational mode is called "Virtual VLAN". If this option is activated, GUEST GATE randomly assigns different networks to each connected guest computer. This option should be activated if you want to prevent Guest Computers from seeing and accessing each other (Virtual VLAN = on).It is activated by default.

Option "enter manual network"

If this option is enabled you can manually define the network for the connected guest computers (Virtual VLAN = off).

2. Welcome Screen

Enable or disable the welcome page for guests. Default = enabled.

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3. Guest Password

If you require your guests to enter a password to access the Internet you can define it here. If left empty no password is required. Default = blank.

The following two options are very useful if you wish to limit the available Internet bandwidth of the guest network. These settings are global, no per client.

4. Bandwidth Download Limit

Control the maximum download speed available for the connected guest computers. Available options are from 32 kbps (kilo bit per second) up to 2048 kbps (= 2 Mega Bit per second). Default = unlimited.

5. Bandwidth Upload Limit

Bandwidth control for the upload speed (sending files to the Internet), options same as above.

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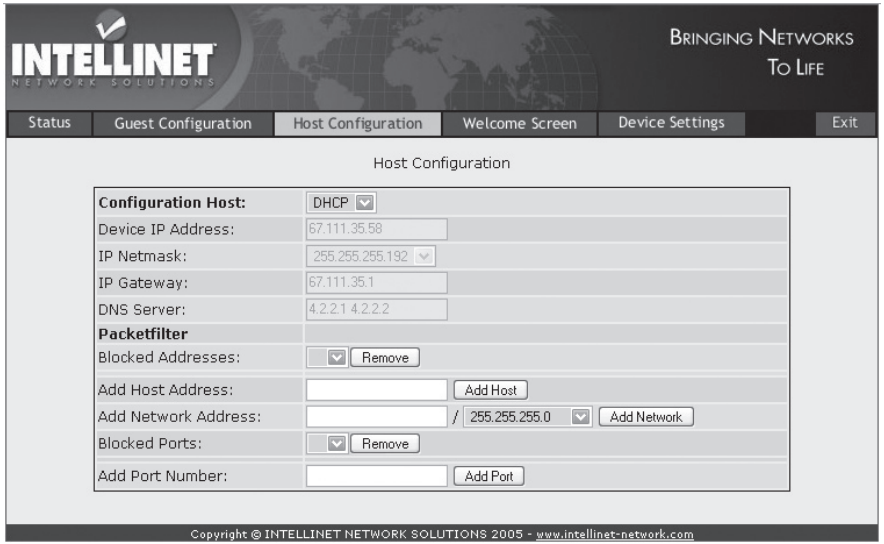
3.3 HOST CONFIGURATION SCREEN



This page shows the configuration options for the Host Interface of GUEST GATE.

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1. Configuration Host

Option "dhcp"

GUEST GATE automatically receives the IP Address, Netmask, Gateway and DNS Server information from the DHCP Server in your Network, typically a Router. This is the default and recommended setting.

Option "static"

In larger networks a manual configuration of the IP settings may be necessary. Select "static" and enter the IP Address, Netmask, Gateway IP Address and DNS Server IP Addresses manually. Multiple DNS Servers can be entered by separating them with a space, i.E. 111.222.333.444 999.888.777.666.

2. Blocked Addresses

If you which to block certain IP Addresses, Domain Names or an entire network you can enter this here.

"Add Host Address" is used to enter domain names such as intellinet-network.com.

"Add Network Address" is used to enter an IP Address. To specify the range you can select the appropriate network mask from the drop down list.

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3. Blocked Ports

This option lets you specify which outgoing TCP/IP Ports you which to block. Enter the port number and click on "Add Port". GUEST GATE blocks both TCP and UDP protocols. A list of common service ports can be found in chapter -> APPENDIX at the end of the document.

If you wish to remove a port simply select the desired port from the dop down list and click on "Remove".

Please note: You can only add and remove single ports. Port ranges are not supported.

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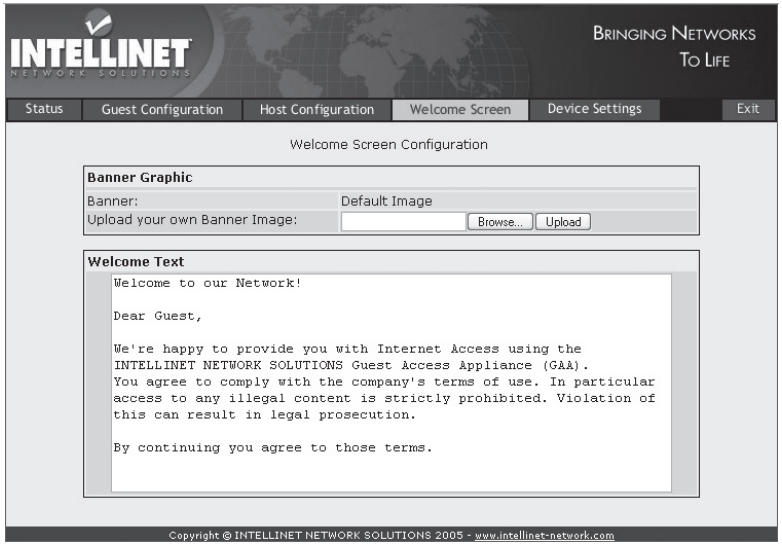
3.4 WELCOME SCREEN



This page shows the Welcome Screen configuration options of GUEST GATE.

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1. Banner Graphic

You can replace the default Banner Image with your own image such as the Logo of your company. Click on Browser to select the file you wish to upload. Click on Upload to replace the default Banner Image. After the upload the text "Default Image" changes into "Custom Image".

Please note:

The Banner Image file type must be either JPG, GIF or PNG.
The Banner Image size must not exceed 60 Kb.
The Banner Image dimension is not limited, but should ideally not exceed 1024 pixel.
The Banner Image only displays on the Guest Welcome Screen. It does not replace the banner in the Administrator Web Interface.

2. Welcome Text

You can overwrite the default text with your own custom text. GUEST GATE supports HTML tags to format your text. Below is a small selection:

bold text
red text
green text
<u>underlined text</u>
<u>**red bold underlined text**</u>

Other HTML commands such as <TABLE> <tr> <td> <img> tags and many more are also supported.

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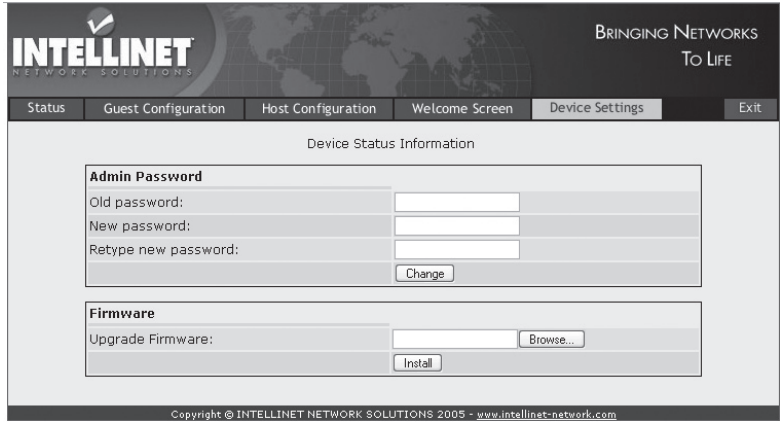
3.5 DEVICE SETTINGS SCREEN



This page shows the Device Settings of GUEST GATE.

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1. Admin Password

To change the Administrator Password you need to enter the old password and the new password. You also must confirm the new password by retyping it.
Click on "**Change**" to save the changes.

2. Firmware

To benefit from new functions in the future you may wish to upgrade the firmware. To do so click on "Browse" to select the new firmware Image, then click on "Install" to begin the upgrade process. The Upgrade may take several minutes depending on your connection speed to GUEST GATE. GUEST GATE will atomatically restart after the upgrade process. After you see the restart message you need to wait one minute before you can acces GUEST GATE again.

Please note:
The Upgrade Process must not be interrupted! A network connection failure or a crash of your local computer during the upgrade proecess will result in the destruction of GUEST GATE.

Ideally you want to perform the upgrade from within the local Host Network whenever possible.

Check the INTELLINET NETWORK SOLUTIONS Web Site (http://www.intellinet-network.com) for future Firmware Updates.

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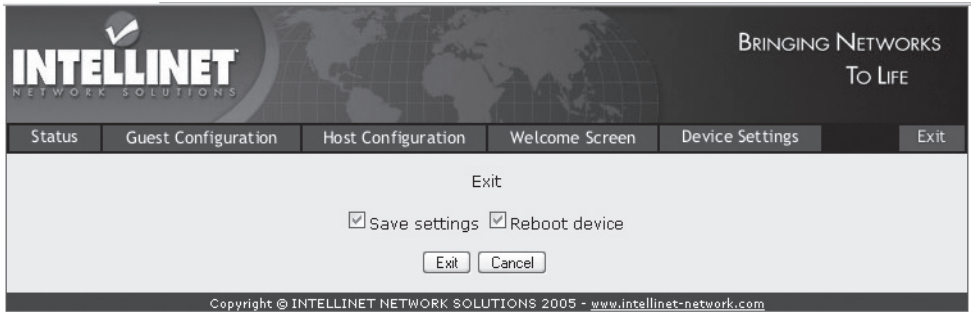
3.6 EXIT SCREEN



This page lets you save the new configuration.

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[x] Save Settings
All changes you made to the configuration will only be memorized if you save the changes by activating this check box.
If you made changes in some of the configuration screens and fail to perform this step before closing the web browser, all changes will get lost.

[x] Reboot Device
In order to activate the new configuration you must also check this box.

Please note:
Saving the settings does not automatically activate them. It is necessary to reboot GUEST GATE for the new configuration to become active.

This way you can make changes to the configuration (i.e. a new Guest Password) now and activate them at a later time.

Rebooting GUEST GATE will also enforce a re-authentication of all connected Guest Computers.

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4. QUESTIONS & ANSWERS

Q1: I have a Server in my network which my guests are not allowed to access. Which Settings do I need to activate in Guest Access Appliance (GUEST GATE) to prevent my guests from accessing this server?

A: You do not need to activate any settings. GUEST GATE provides this functionality by default. Should a guest try to access a server or computer in your network GUEST GATE will deny the request displaying a warning message in the guest's web browser window.

Q2: What if I want to allow my guests access to my network, i.e. my Intranet Web Server?

A: It is a core functionality of GUEST GATE to prevent your guests from accessing the host network. Your only option is to connect the Intranet Web Server to one of GUEST GATE's Guest Ports.

Q3: Can I control the amount of bandwidth available for my Guest Network?

A: Yes. Upload and Download bandwidth can be controlled in the Guest Configuration of the Administrator Web Interface.

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Q4: I wish to display my own Welcome Page for my guests. Can I change the default welcome page?

A: Yes. The welcome page can be changed in the Welcome Page Configuration of the Administrator Web Interface. You can change the welcome message and upload your own Banner Image.

Q5: Can I use HTML Code in my custom Welcome Page?

A: Yes. GUEST GATE does not limit you in any way. If you are a HTML Web Developer you can create an enhanced welcome page simply by pasting the HTML Code into the Welcome Page configuration field. GUEST GATE does not support server side scripting (PHP, ASP or Perl).

Q6: I have changed some settings in the Administrator Web Interface, but the changes show no effect. Why?

A: You may have forgotten to save the configuration through the EXIT page of the Administrator Web Interface.

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Q7: What does the option "use separate random network for each client" in the Guest Configuration do and what is it used for?

A: This is the Virtual VLAN Function of GUEST GATE. If this option is activated GUEST GATE will prevent the connected Guest Computers from accessing each other by assigning random TCP/IP Network Settings to the guest computers. This way each Guest operates in its own "Virtual LAN". The following examples illustrate how it works:

1. Guest Configuration set to "automatically select network" (no Virtual VLAN)
   Guest Computer 1 receives IP Address 172.16.254.253.
   Guest Computer 2 receives IP Address 172.16.254.252.
   Guests Computer 3 receives IP Address 172.16.254.251.
   […]
   In this mode all Guest Computers operate in one network and are therefore able to access each other.

2. Guest Configuration set to "use separate random network for each client" (Virtual VLAN enabled)
   Guest Computer 1 receives IP Address 192.168.17.42.
   Guest Computer 2 receives IP Address 172.16.25.12.

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Guest Computer 3 receives IP Address 10.10.8.178.
[…]
In this mode each Guest Computer operates in its own network and therefore can not access any other device except for the Internet. Since this function is random it is next to impossible for an attacker to know or guess which IP Addresses the other guests have been assigned making a hacking attempt virtually impossible.

If you are concerned with the security of your guests or are worried about potential liability issues you should activate this option (it is activated by default).

Q8: How often does a Guest need to authenticate at the Welcome Page?

A: Only once. As long as GUEST GATE is not restarted the Guest will never again be prompted to enter the password and agree to your terms and conditions.

Q9: Some of my guests wish to play a network game, or share files and folders. But that does not work. Why can't the connected Guest Computers communicate with each other?

A: That is because by default Virtual VLAN is activated. You need to disable it to allow network communication between the connected Guest Computers. See Question 7.

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5. SERVICE & SUPPORT

Additional information about GUEST GATE is available on the web at
http://www.intellinet-network.com/guestgate

On this page you can:

1. Find answers to common questions (FAQ)

2. Obtain the latest Firmware Versions

3. Get in contact with our technical support team.

In case of technical problems we recommend to always check the Web Site first. You can also contact our technical support directly via the following email address:

guestgate-support@intellinet-network.com

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SPECIFICATIONS

- Guest Network: 4 x 10/100Mbps RJ45 Port
- Host Network: 1 x 10/100Mbps RJ45 Ports
- Reset Button
- LEDs: 1 x Power, 1 x Link/Activity for Host Network, 4 x Link/Activity for Guest Ports
- AC Adapter 12V/1A
- Dimensions: H: 37mm, W: 187mm, D: 100mm
- Humidity : 0-90% (Non-Condensing)
- Temperature : 10~55 °C
- EMI Certification: FCC Class B, CE Mark, C-T

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6. APPENDIX

Below you can find a list of common TCP/IP Service Ports. These ports can be entered in the HOST CONFIGURATION of GUEST GATE to block access to certain services.

PORT NUMBER	SERVICE NAME / DESCRIPTION
21	FTP
22	SSH (Secure Shell)
23	Telnet
25	SMTP (Outgoing Mail, Sendmail Server Port)
69	TFTP (Trivial File Transfer Protocol)
70	Gopher
79	Finger
80	HTTP (Standard Web Port for Web Sites)
110	POP3 (Incoming Mail)
115	SFTP (Simple File Transfer Protocol)
119	NNTP (Newsgroups)
123	NTP (Network Time Protocol)
135	RPC service, used for NET SEND command
137, 138, 139	NETBIOS (Filesharing, MS Windows Network)
143	IMAP (Interim Mail Access Protocol)
161	SNMP (Simple Network Management Protocol)
194, 6665-6669	IRC (Internet Relay Chat)
443	HTTS (Secure Web transfer, used by SSL))

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PORT NUMBER	SERVICE NAME / DESCRIPTION
514	SHELL (
515	LPR (Line Printer Remote), LPD (Line Printer Daemon)
631	IPP (Internet Printing Protocol)
1723	PPTP (used for VPN Connections)
1863	MSN Messenger
2535, 2745, 8866	Trojan: Used by Beagle
3389	Windows XP Remote Desktop Port
3410	Trojan: OptixPro, also used by NetworkLens SSL Event
3689	iTUNES by Apple, DAAP
4899	RADMIN, Remote Control
5000, 5001	YAHOO Messenger Voice Chat
5100	YAHOO Messenger Video (Webcam)
5190, 5191, 5192, 5193	AOL (America On Line via TCP)
5554	Trojan: Sasser Family, also used for SGI ESP HTTP.
5800+, 5900+	VNC
12345	Trojan: Used by Netbus, also used by Italk Chat System and TrendMicro OfficeScan antivirus
27374	Trojan: Used by SubSeven

Please note:
This list is by no means complete.

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